

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-3-199

Relating to Certification of New Heavy-Duty Engines and Vehicles

DAIMLERCHRYSLER

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102 and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That the following 2000 model-year DaimlerChrysler diesel-cycle engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds:

Fuel Type: Diesel

| <u>Engine Family</u> | <u>Engine Displacement<br/>Liters (Cubic Inches)</u> | <u>Exhaust Emission Control<br/>Systems and Special Features</u> |
|----------------------|--|--|
| YMBXH4.25DJA         | 4.2 (258)  | Turbocharger<br>Charge Air Cooler<br>Engine Control Module       |

Engine models and codes are listed on attachments.

The following are the certification exhaust emission standards for this engine family in grams per brake horsepower-hour:

| <u>Total<br/>Hydrocarbons</u> | <u>Carbon<br/>Monoxide</u> | <u>Nitrogen<br/>Oxides</u> | <u>Particulates</u> |
|-------------------------------|----------------------------|----------------------------|---------------------|
| 1.3                           | 15.5                       | 4.0                        | 0.10                |

The following are the certification exhaust emission values for this engine family in grams per brake horsepower-hour:

| <u>Total<br/>Hydrocarbons</u> | <u>Carbon<br/>Monoxide</u> | <u>Nitrogen<br/>Oxides</u> | <u>Particulates</u> |
|-------------------------------|----------------------------|----------------------------|---------------------|
| 0.4                           | 1.1                        | 3.8                        | 0.09                |

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachments.

Executed at El Monte, California this 27<sup>th</sup> day of September 1999.

A handwritten signature in black ink, appearing to read 'R. B. Summerfield', is written over the printed name and title.

R. B. Summerfield, Chief  
Mobile Source Operations Division

A 15

LARGE ENGINE MODEL SUMMARY

EO: A-3-199

Manufacturer:

DaimlerChrysler

EPA Engine Family:

YMBX114.25DJAManufacturer Family Name: N/A

| Engine Code | Engine Model | DIP @ RPM<br>(SAE Gross) | Fuel Rate:<br>mm/stroke @ rated<br>speed<br>(for diesel only) | Fuel Rate:<br>lbs./hr @ rated<br>speed<br>(for diesel only) | Max. Torque<br>ft.-lbs. @ RPM<br>(SAE Gross) | Fuel Rate:<br>mm/stroke @ max.<br>rated torque | Fuel Rate:<br>(lbs/hr) @ max.<br>rated torque | Emission Control<br>Device Per SAE<br>J1930 |
|-------------|--------------|--------------------------|---|---|--|--|---|---|
| Code I      | OM 904 LA    | 190 @ 2300               | 134   | 68.1  | 520 @ 1500                                   | 153  | 50.7  | TC, ECM, CAC                                |
| Code II     | OM 904 LA    | 180 @ 2300               | 130   | 66.1  | 520 @ 1500                                   | 153  | 50.7  | TC, ECM, CAC                                |
| Code III    | OM 904 LA    | 170 @ 2300               | 120   | 61.0  | 420 @ 1500                                   | 123  | 40.6  | TC, ECM, CAC                                |
| Code IV     | OM 904 LA    | 150 @ 2300               | 107   | 54.3  | 380 @ 1500                                   | 113  | 37.5  | TC, ECM, CAC                                |
|             |              |                          |   |   |  |  |   |   |
|             |              |                          |   |   |  |  |   |   |

Note: Values for max. torque rpm represent engine speed range of constant torque!